APPENDIX C

"EXPRESS MAIL" Mailing Label Number

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Tina Grimstead-Campbell

APPENDIX C

Byte codes supported by the Card JVM in the preferred embodiment

AASTORE

AALOAD ALOAD ALOAD_2 ARRAYLENGTH ASTORE_1 **ATHROW CHECKCAST** DUP2_X1 DUP_X2 **GOTO IAND** ICONST_1 ICONST_4 IDIV **IFGT IFNE** IF_ACMPEQ IF_ICMPGE IF_ICMPLT ILOAD ILOAD_2 **INEG** INT2CHAR INVOKENONVIRTUAL IOR

ISHL

IXOR

LDC2

POP2

RET

ISTORE_0

ISTORE_3

NEWARRAY

SASTORE

TABLESWITCH

ALOAD_0 ALOAD_3 **ASTORE** ASTORE_2 **BALOAD** DUP DUP2_X2 **GETFIELD IADD IASTORE** ICONST_2 ICONST_5 **IFEQ IFLE IFNONNULL** IF_ACMPNE IF_ICMPGT IF_ICMPNE ILOAD_0 ILOAD_3 **INSTANCEOF INT2SHORT** INVOKESTATIC **IREM**

ISHR

ISUB

JSR

NOP

ISTORE_1

PUTFIELD

RETURN

SIPUSH

BIPUSH

LOOKUPSWITCH

ACONST_NULL ALOAD 1 **ARETURN** ASTORE_0 ASTORE_3 **BASTORE** DUP2 DUP_X1 **GETSTATIC IALOAD** ICONST_0 ICONST_3 ICONST_M1 **IFGE IFLT IFNULL** IF_ICMPEQ IF ICMPLE IINC ILOAD_1 **IMUL** INT2BYTE INVOKEINTERFACE INVOKEVIRTUAL **IRETURN ISTORE** ISTORE_2 **IUSHR** LDC1 **NEW** POP **PUTSTATIC SALOAD SWAP**

Standard Java byte codes numbers for the byte codes supported in the preferred embodiment

```
package util;
 * List of actual Java Bytecodes handled by this JVM

    ref. Lindohlm and Yellin.

 * Copyright (c) 1996 Schlumberger Austin Products Center,
                        Schlumberger, Austin, Texas, USA.
public interface BytecodeDefn (
    public static final byte j_NOP = (byte)0;
   public static final byte ACONST_NULL = (byte)1;
   public static final byte ICONST_M1 = (byte)2;
    public static final byte ICONST_0 = (byte)3;
   public static final byte ICONST_1 = (byte)4;
   public static final byte ICONST_2 = (byte)5;
   public static final byte ICONST_3 = (byte)6;
    public static final byte ICONST_4 = (byte)7;
   public static final byte ICONST_5 = (byte)8;
   public static final byte BIPUSH = (byte)16;
   public static final byte SIPUSH = (byte)17;
   public static final byte LDC1 = (byte)18;
   public static final byte LDC2 = (byte)19;
   public static final byte ILOAD = (byte)21;
    public static final byte ALOAD = (byte)25;
   public static final byte ILOAD_0 = (byte)26;
   public static final byte ILOAD_1 = (byte)27;
   public static final byte ILOAD_2 = (byte)28;
   public static final byte ILOAD_3 = (byte)29;
   public static final byte ALOAD_0 = (byte)42;
   public static final byte ALOAD_1 = (byte)43;
   public static final byte ALOAD_2 = (byte)44;
   public static final byte ALOAD_3 = (byte)45;
   public static final byte IALOAD = (byte)46;
   public static final byte AALOAD = (byte)50;
   public static final byte BALOAD = (byte)51;
   public static final byte CALOAD = (byte)52;
   public static final byte ISTORE = (byte)54;
    public static final byte ASTORE = (byte) 58;
   public static final byte ISTORE_0 = (byte)59;
    public static final byte ISTORE_1 = (byte)60;
    public static final byte ISTORE_2 = (byte)61;
    public static final byte ISTORE_3 = (byte)62;
   public static final byte ASTORE_0 = (byte)75;
    public static final byte ASTORE_1 = (byte)76;
    public static final byte ASTORE_2 = (byte)77;
    public static final byte ASTORE_3 = (byte)78;
    public static final byte IASTORE = (byte)79:
    public static final byte AASTORE = (byte)83;
    public static final byte BASTORE = (byte)84;
    public static final byte CASTORE = (byte)85;
    public static final byte POP = (byte)87;
    public static final byte POP2 = (byte)88;
    public static final byte DUP = (byte)89;
    public static final byte DUP_X1 = (byte)90;
    public static final byte DUP_X2 = (byte)91;
    public static final byte DUP2 = (byte)92;
    public static final byte DUP2_X1 = (byte)93;
    public static final byte DUP2_X2 = (byte)94;
    public static final byte SWAP = (byte)95;
    public static final byte IADD = (byte)96;
    public static final byte ISUB = (byte)100;
    public static final byte IMUL = (byte)104;
    public static final byte IDIV = (byte)108;
    public static final byte IREM = (byte)112;
```

```
public static final byte INEG = (byte)116;
public static final byte ISHL = (byte)120;
public static final byte ISHR = (byte)122;
public static final byte IUSHR = (byte)124;
public static final byte IAND = (byte)126;
public static final byte IOR = (byte)128;
public static final byte IXOR = (byte)130;
public static final byte IINC = (byte)132;
public static final byte INT2BYTE = (byte)145;
public static final byte INT2CHAR = (byte)146;
public static final byte INT2SHORT = (byte)147;
public static final byte IFEQ = (byte)153;
public static final byte IFNE = (byte)154;
public static final byte IFLT = (byte)155;
public static final byte IFGE = (byte) 156;
public static final byte IFGT = (byte)157;
public static final byte IFLE = (byte)158;
public static final byte IF_ICMPEQ = (byte)159;
public static final byte IF_ICMPNE = (byte)160;
public static final byte IF_ICMPLT = (byte)161;
public static final byte IF_ICMPGE = (byte)162;
public static final byte IF_ICMPGT = (byte)163;
public static final byte IF_ICMPLE = (byte)164;
public static final byte IF_ACMPEQ = (byte)165;
public static final byte IF_ACMPNE = (byte)166;
public static final byte GOTO = (byte)167;
public static final byte j_JSR = (byte)168;
public static final byte RET = (byte)169;
public static final byte TABLESWITCH = (byte)170;
public static final byte LOOKUPSWITCH = (byte)171;
public static final byte IRETURN = (byte)172;
public static final byte ARETURN = (byte)176;
public static final byte RETURN = (byte)177;
public static final byte GETSTATIC = (byte)178;
public static final byte PUTSTATIC = (byte)179;
public static final byte GETFIELD = (byte)180;
public static final byte PUTFIELD = (byte)181;
public static final byte INVOKEVIRTUAL = (byte)182;
public static final byte INVOKENONVIRTUAL = (byte)183;
public static final byte INVOKESTATIC = (byte)184;
public static final byte INVOKEINTERFACE = (byte)185;
public static final byte NEW = (byte)187;
public static final byte NEWARRAY = (byte)188;
public static final byte ARRAYLENGTH = (byte)190;
public static final byte ATHROW = (byte)191;
public static final byte CHECKCAST = (byte)192;
public static final byte INSTANCEOF = (byte)193;
public static final byte IFNULL = (byte)198;
public static final byte IFNONNULL = (byte)199;
```